



PATENT  
Q176-US1

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

Bookeun OH et al.

Serial No: 10/663,023

Filed: September 15, 2003

For: POLYMER ELECTROLYTE SYSTEM

Art Unit: 1745

Examiner: N/A

**TRANSMITTAL OF  
INFORMATION DISCLOSURE STATEMENT**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313

Dear Sirs:

I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to:

Commissioner for Patents  
P.O. Box 1450  
Alexandria VA 22313-1450, on

April 19, 2004

Date of Deposit

Kathy Hinckley

Name

Signature

4/19/2004  
Date

1. ☒ The information disclosure statement submitted herewith is being filed within three months of the filing date of the application other than a continued prosecution application, or within three months of the date of entry into the national stage of an international application, or before the mailing date of a first Office Action on the merits, or before the mailing of a first Office action after the filing of a request for continued examination under §1.114, whichever event occurs last. 37 C.F.R. §1.97(b).
2. ☐ The information disclosure statement transmitted herewith is being filed *after* the period specified in §1.97(b), but *before* the mailing date of a final action under §1.113, or a notice of allowance under §1.311, or an action that otherwise closes prosecution in the application, whichever occurs first. A statement specified in §1.97(e) or a fee set forth in §1.17(p) is included. 37 C.F.R. §1.97(c).

**§1.97(e) STATEMENT**

I, the person signing below, state:

- ☐ that each item of information contained in the information disclosure statement was first cited in the attached communication from a foreign patent office in a counterpart foreign application and that the communication is dated not more than three months prior to the filing of the statement. 37 C.F.R. §1.97(e)(1).

OR

- ☐ that no item of information contained in the information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing the certification after making reasonable inquiry, no item of information contained in the information disclosure statement was known to any individual designated in §1.56(c) more than three months prior to the filing of the statement. 37 C.F.R. §1.97(e)(2).

**OR FEE**

- ☐ Attached is a fee set forth in 37 C.F.R. §1.17(p) for submission of an information disclosure statement under §1.97(c). (\$180.00).
  - ☐ Please charge the fee set forth in 37 C.F.R. §1.17(p) for submission of an information disclosure statement under §1.97(c) (\$180.00) to Deposit Account No. 50-0921, referencing docket number \_\_. A copy of this petition is enclosed.
3. ☐ The information disclosure statement transmitted herewith is being filed *after* the period specified in §1.97(c), but before, or simultaneously with the payment of the issue fee. A statement specified in §1.97(e) and a fee set forth in §1.17(p) are included. 37 C.F.R. §1.97(d).

**§1.97(e) STATEMENT**

I, the person signing below, state:

- ☐ that each item of information contained in the information disclosure statement was first cited in the attached communication from a foreign patent office in a counterpart foreign application and that the communication is dated not more than three months prior to the filing of the statement. 37 C.F.R. §1.97(e)(1).

**OR**

- ☐ that no item of information contained in the information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing the certification after making reasonable inquiry, no item of information contained in the information disclosure statement was known to any individual designated in §1.56(c) more than three months prior to the filing of the statement. 37 C.F.R. §1.97(e)(2).

**AND FEE**

- ☐ Attached is a fee set forth in 37 C.F.R. §1.17(p) for submission of an information disclosure statement under §1.97(d). (\$180.00).
  - ☐ Please charge the fee set forth in 37 C.F.R. §1.17(p) for submission of an information disclosure statement under §1.97(c) (\$180.00) to Deposit Account No. 50-0921, referencing docket number \_\_. A copy of this petition is enclosed.
4. The filing of an information disclosure statement shall not be construed to be an admission that the information cited in the statement is, or is considered to be, material to patentability as defined in § 1.56(b) [37 C.F.R. § 1.97(h)]. Further, applicants make no admission that all references presented here are prior art in relation to the present application.
5. If it should be determined that for any reason either an insufficient fee or an excessive has been paid, please charge any insufficiency or credit any overpayment necessary to ensure consideration of the information disclosure statement for the above-identified application to Deposit Account No. 50-0921. **A copy of this petition is enclosed.**
6. A list of 11 reference(s) is in the enclosed Form PTO-1449.
- ☐ Pursuant to 37 C.F.R. § 1.98(d), a copy / copies of some of the listed reference(s) is / are not provided since it is / they are of record in parent application Serial No. \_\_ filed \_\_, the benefit of the filing date of which is claimed herein under 35 U.S.C. § 120.

**NON-ENGLISH LANGUAGE REFERENCES**

- ☐ Enclosed is a search report for a counterpart application. The search report Examiner has provided comments on the relevancy of any non-English language references cited in the search report.
- ☐ The specification incorporates comments on the relevancy of Non-English language references.
- ☐ Set forth below are comments provided by the applicant's home country counsel on the relevancy of non-English language references: N/A

Respectfully submitted,

Date: April 19, 2004

By: 

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Substitute for form 1449A/PTO  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> <i>(use as many sheets as necessary)</i>				<u>Complete if Known</u>	
				Application Number	10/663,023
				Filing Date	September 15, 2003
				First Named Inventor	Bookeun OH et al.
				Art Unit	1745
				Examiner Name	N/A
Sheet	1	of	1	Attorney Docket number	Q176-US1

### US PATENT DOCUMENTS

Examiner Initials	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document
	Number – Kind Code		
	US-6,268,088 B1	06-31-2001	Oh et al.
	US-645,465 B1	06-12-2001	Angell et al.

### FOREIGN PATENT DOCUMENTS

Examiner Initials	Foreign Patent Document			Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	English Abstract	Machine Translation	Entire Document
	Office	Number	Kind					
								✓
								✓
								✓

### OTHER DOCUMENTS

Examiner Initials	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, cite and/or country where published
	M. OUCHI et al., Convenient and Efficient Tosylation of Oligoethylene Glycois and the Related Alcohols in Tetrahydrofuran-Water in the Presence of Sodium Hydroxide, The Chemical Society of Japan, April 1990, 1260-1262, 63, 4.
	H. ALLCOCK et al., Polyphosphazenes Bearing Branched and Linear Oligoethyleneoxy Side Groups as Solid Solvents for Ionic Conduction, Macromolecules, November 23, 1996, 7544-7552, 29.
	F. GRAY, Polymer Electrolytes, RSC Materials Monographs, UK, January 1, 1997, 46-49.
	J. BLACKWELL et al., B(C <sub>6</sub> F <sub>5</sub> ) <sub>3</sub> -Catalyzed Silation of Alcohols: A Mild, General Method for Synthesis for Silyl Ethers, Journal of Organic Chemistry, June 9, 1999, 4887-4892, 64.
	W. XU et al., LiBOB and Its Derivatives Weakly Coordinating Anions, and the Exceptional Conductivity of Their Nonaqueous Solutions, Electrochemical and Solid-State Letters, 2001, E1-E4, 4(1).
	W. XU et al., Ionic Conductivity and Electrochemical Properties of Lithium Orthoborate Salts, <a href="http://www.electrochem.org/meetings/past/200/abstracts/symposia/bla/0107.pdf">http://www.electrochem.org/meetings/past/200/abstracts/symposia/bla/0107.pdf</a> , United States, September 5, 2001.
	T. FUJII et al., Application of LiBOB as an Electrolyte Salt for 4 V Class Lithium Ion Rechargeable Cells, <a href="http://www2.electrochem.org/cgi-bin/abs?mtg=202&amp;abs=0203">http://www2.electrochem.org/cgi-bin/abs?mtg=202&amp;abs=0203</a> , October 24, 2002, United States.
	W. XU et al., Structures of Orthoborate Anions and Physical Properties of Their Lithium Salt Nonaqueous Solutions, Journal of the Electrochemical Society, 2003, 1-0, 150(1).
	Z. Zhang et al., Cross-Linked Network Polymer Electrolytes Based on a Polysiloxane Backbone with Oligo(oxyethylene) Side Chains: Synthesis and Conductivity, Macromolecules, 10/28/2003, Vol. 36, No. 24, 9176-9180.

Examiner Signature		Date Considered	
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